

RWRA FIVE-YEAR CAPITAL PLAN PROJECTS

Project Number	Construction Year	Project	# Customers /ERUs		Cedar Hills Construction	Friendly Park Construction	Assessment	System Dev.	Capacity	Environmental	Op & Repl	Comments	
FISCAL YEAR 2018-19													
M	2018-19	Various Sewer Relinings & Manhole Rehabs	N/A							\$1,080,000	\$360,000	Replacement project/ I & I Improvement	
M	2018-19	Tunnel Sewer Manhole Rehabs	N/A							\$360,000	\$120,000	Replacement project/ I & I Improvement	
66	2018-19	Cedar Hills Sewer Extension (Construction/easement/admin fees)	125	X	\$325,850			\$96,150				Potential Funding (KIA)	*
OP02	2018-19	Rehab Max Rhoads Plant Drying Beds	N/A								\$615,000	Resurface and new trough/grating/channeling system	
OP04	2018-19	Max Rhoads Plant Clarifier #2 Center Pier Rehab	N/A								\$55,000	Center Column Bearings/Race/Paint	
OP05	2018-19	Max Rhoads Plant Clarifier #2 Trough Epoxy	N/A								\$65,000	Epoxy Coat Trough for Algae Control	
OP06	2018-19	Max Rhoads East Access Road	N/A								\$340,000	Sean estimate on separate access drive for brickyard. 100% RWRA financed	
OP08	2018-19	Grimes Standby Generator	N/A								\$100,000	Purchase/Install a standby generator to provide power to JMO facility	
Opsub	2018-19	Plant Equipment Upgrades/Replacements	N/A								\$350,000	Includes <b>forecasted</b> existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2018-19	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,800,500	Includes <b>forecasted</b> collection system, all pump repair/replacement, fleet and PS replacements	
OP	2018-19	Plant and Collection System Renovations/Replacements	N/A								\$2,150,500	Various operation/replacement expenses	
C	2018-19	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2018-19		Total New Customers	125		\$325,850		\$0	\$0	\$96,150	\$0	\$1,790,000	\$3,805,500	2018-19 Total \$6,017,501
FISCAL YEAR 2019-20													
M	2019-20	Combined Sewer Tunnel Relining Project	N/A							\$2,850,000	\$950,000	CSO Initiative	*
36	2019-20	Thruston-Dermont Ph 3 (Springlane Area)	26	X			\$340,000	\$85,000				Potential grant eligibility	*
C7	2019-20	Lafayette Drive Pump Station and Force Main Diversion	N/A							\$200,000		CSO initiative	
M	2019-20	Manhole Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
M	2019-20	Pipeline Rehabilitations	N/A							\$1,050,000	\$350,000	Replacement project/ I & I Improvement	
M22	2019-20	Max Rhoads Plant Sludge Process Improvements	N/A								\$1,550,246	Replace (2) MRP Belt Filter Presses with New Press Tech/Equipment	*
OP03	2019-20	Collection and Plant Odor Control System	N/A								\$225,000	System wide Odor Control D/B Implementation post SW Master implementation	
OP28	2019-20	Max Rhoads Plant Hydraulics/ Profile Mods	N/A						\$250,000			Structural Modifications to correct hydraulic profile/capacity issues at MRP	
OP07	2019-20	Max Rhoads Plant PLC Upgrades - Ethernet Based	N/A								\$750,000	Modernize and upgrade RWRA PLC's to an Ethernet Based System	
OP10	2019-20	Max Rhoads Plant Clarifier #1 Center Pier Rehab	N/A								\$55,000	Center Column Bearings/Race/Paint	
OP11	2019-20	Max Rhoads Plant Clarifier #1 Trough Epoxy	N/A								\$65,000	Epoxy Coat Trough for Algae Control	
OP12	2019-20	David Hawes Plant Wasting Process Telemetry & Controls	N/A								\$80,000	Add SCADA Integrated TSS, DO, Blanket and COD Process Monitoring	
OP13	2019-20	David Hawes Plant N. Clarifier Center Pier Rehab	N/A								\$55,000	Rehab Metal Surfaces, Paint Weir Troughs	
OP14	2019-20	David Hawes Plant N. Clarifier Trough Epoxy	N/A								\$65,000	Epoxy Coat Trough for Algae Control	
OP16	2019-20	David Hawes Plant Generator Replacement	N/A								\$350,000	Replace DHP Standby Generator to support WWTP & Admin (Master Plan Considerations)	
Opsub	2019-20	Plant Equipment Upgrades/Replacements	N/A								\$65,000	Includes <b>forecasted</b> existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2019-20	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,748,000	Includes <b>forecasted</b> collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2019-20	Plant and Collection System Renovations/Replacements	N/A								\$1,813,000	Various operation/replacement expenses	
C	2019-20	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2019-20		Total New Customers	26		\$0		\$340,000	\$85,000	\$250,000	\$4,900,000	\$6,458,246	2019-20 Total \$12,033,246	
FISCAL YEAR 2020-21													
C12	2020-21	Baybrook Interceptor/Separation Project	N/A							\$300,000		CSO initiative	
C13	2020-21	Parkway Drive Interceptor Project	N/A							\$3,500,000		CSO initiative	*
M21	2020-21	Ragu Pump Station Upgrades	N/A						\$950,000			TIF, Replacement/Rehabilitation Project - Capacity Improvement	*
M	2020-21	Manhole Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
M	2020-21	Pipeline Rehabilitations	N/A							\$975,000	\$325,000	Replacement project/ I & I Improvement	
OP15	2020-21	Additional Camera/Grout Truck	N/A								\$400,000	Add Camera/Grout truck for additional CIPP/Grouting Capability - Staffing Considerations	
OP17	2020-21	Energy Efficiency Upgrades	N/A								\$75,000	Replace lighting with LEDs (Shop, Barn, Offices)	
OP19	2020-21	David Hawes Plant S. Clarifier Center Pier Rehab	N/A								\$55,000	Rehab Metal Surfaces, Paint Weir Troughs	
OP20	2020-21	David Hawes Plant S. Clarifier Trough Epoxy	N/A								\$65,000	Epoxy Coat Trough for Algae Control	
OP21	2020-21	Maintenance Facility Renovations	N/A								\$500,000	Move Maintenance Department over to DHP	
Opsub	2020-21	Plant Equipment Upgrades/Replacements	N/A								\$55,000	Includes <b>forecasted</b> existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2020-21	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,534,000	Includes <b>forecasted</b> collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2020-21	Plant and Collection System Renovations/Replacements	N/A								\$1,589,000	Various operation/replacement expenses	
C	2020-21	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2020-21		Total New Customers	0		\$0		\$0	\$0	\$0	\$950,000	\$5,575,000	\$3,159,000	2020-21 Total \$9,684,000

RWRA FIVE-YEAR CAPITAL PLAN PROJECTS

Project Number	Construction Year	Project	# Customers /ERUs		Cedar Hills Construction	Friendly Park Construction	Assessment	System Dev.	Capacity	Environmental	Op & Repl	Comments	
FISCAL YEAR 2021-22													
M	2021-22	Manhole Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
M	2021-22	Pipeline Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
OP22	2021-22	PZEV Infrastructure	N/A								\$90,000	\$30,000 Charging Station @ Each Facility	
OP23	2021-22	Max Rhoads Plant Clarifier #3 Trough Epoxy	N/A								\$150,000	Rehab Metal Surfaces, Paint Weir Troughs	
OP24	2021-22	David Hawes Plant Ditch Aeration Upgrades	N/A								\$2,000,000	Upgrade/Replace Ditch Aerators (Fine Bubble Diffusers?)	*
C8	2021-22	Harsh Ditch Separation Project (Tampa Drive Area)	N/A							\$200,000		CSO Initiative	
Opsub	2021-22	Plant Equipment Upgrades/Replacements	N/A								\$55,000	Includes <b>forecasted</b> existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2021-22	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,477,000	Includes <b>forecasted</b> collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2021-22	Plant and Collection System Renovations/Replacements	N/A								\$1,532,000	Various operation/replacement expenses	
C	2021-22	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2021-22		Total New Customers	0		\$0	\$0	\$0	\$0	\$0	\$1,450,000	\$4,072,000	2021-22 Total	\$5,522,000
FISCAL YEAR 2022-23													
M	2022-23	Manhole Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
M	2022-23	Pipeline Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
OP09	2022-23	Grimes Fuel Station (12,000 Gallons)	N/A								\$125,000	Above ground Diesel Distribution Tank/Center at Grimes Yard (12,000 gal)	
OP25	2022-23	David Hawes Plant Sludge Process Improvements	N/A								\$1,500,000	Mimic equipment upgrades from MRP. Additional installation cost @ 2nd Floor	*
OP27	2022-23	Max Rhoads Plant Process Control Automation	N/A								\$750,000	In channel COD, TSS, and Automated Wasting Control Logic	
28	2022-23	Wimsatt Court Sewer Extension	8	X			\$70,000				\$60,000	Potential grant eligibility	*
Opsub	2022-23	Plant Equipment Upgrades/Replacements	N/A								\$55,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2022-23	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,252,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2022-23	Plant and Collection System Renovations/Replacements	N/A								\$1,307,000	Various operation/replacement expenses	
C	2022-23	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2022-23		Total New Customers	8		\$0	\$0	\$70,000	\$0	\$0	\$1,250,000	\$4,042,000	2022-23 Total	\$5,362,000
FISCAL YEAR 2023-24													
M	2023-24	Manhole Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
M	2023-24	Pipeline Rehabilitations	N/A							\$450,000	\$150,000	Replacement project/ I & I Improvement	
OP18	2023-24	Max Rhoads Plant Settling Tank / Track Rehab	N/A								\$200,000	Rehab Metal Tracks, Chains, Sprockets, Gears, Axles on Tanks 1 & 2	
OP29	2023-24	MRP Blower 1&2 Equipment Rehab (Moter/Gearbox)	N/A								\$200,000	Rehab Motors & Gearboxes for Aerators 1&2	
OP30	2023-24	David Hawes Plant WWTP Process Control Automation	N/A								\$650,000	Process Control Automation & Instrumentation @ DHP	
C14	2023-24	Williamsburg Square Pump Station/Force Main Project	N/A							\$600,000		Long term Control Plan	
Opsub	2023-24	Plant Equipment Upgrades/Replacements	N/A								\$60,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2023-24	Collection System Facilities & Equipment Upgrades/Replacements	N/A								\$1,115,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2023-24	Plant and Collection System Renovations/Replacements	N/A								\$1,175,000	Various operation/replacement expenses	
C	2023-24	Environmental Improvement Initiative(s)	N/A							\$350,000		CSO initiative	
2023-24		Total New Customers	0		\$0	\$0	\$0	\$0	\$0	\$1,850,000	\$2,525,000	2023-24 Total	\$4,375,000

C = CSO Initiative	X Denotes significant interest and/or need for service	MHP = Mobile Home Park	*Denotes contributions/coordinations with other funding sources
M = Maintenance Project	# Denotes grant approved		**Denotes currently under construction
OP = Operational Projects/Expenses	SFR = Single Family Residential		

Proposed to RWRA Board - January 28, 2019

Planning Document Only - Schedule of projects subject to change based on several factors, including funding.